

Health and Safety
located on trailer wall



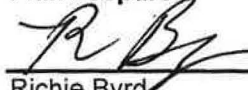
**Final
SITE HEALTH AND SAFETY PLAN**

**EMERGENCY AND RAPID RESPONSE SERVICES
TUCHMAN CLEANERS SITE
INDIANAPOLIS, MARION COUNTY, INDIANA**

September 5, 2012

I hereby certify that the enclosed Site Health and Safety Plan, shown and marked in this submittal, has been prepared in accordance with OSHA 29 CFR 1910 and is proposed to be incorporated with Contract No.: EP-S5-09-05 Task Order 0106. This Site Health and Safety Plan is submitted for Government review and acceptance.

Plan Preparer:


Richie Byrd
Response Manager

9/17/12
Date

317-491-4128
Phone Number

Plan Approval:

Lonnie R. Wright
Vice President, Health and Safety

Date

636-680-2422
Phone Number

Plan Review:

Randy Kirkland
START Project Manager

Date

Phone Number

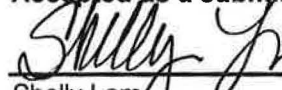
Plan Review

David Robinson
START EHS

Date

937-572-3630
Phone Number

Accepted as a submittal:


Shelly Lam
On Scene Coordinator
USEPA Region 5

9/17/12
Date

317-417-0980
Phone Number



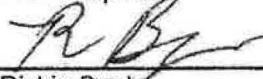
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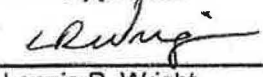
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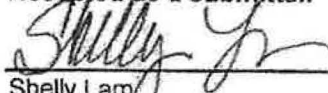
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TUCHMAN CLEANERS SITE
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Plan Review:


Randy Kirkland
START Project Manager

9/28/12
Date

937-602-3089
Phone Number

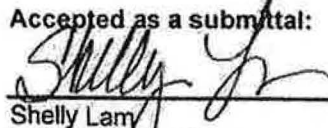
Plan Review


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START EHS

9/28/12
Date

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Phone Number

Accepted as a submittal:


Shelly Lam
On Scene Coordinator
USEPA Region 5

9/17/12
Date

317-417-0980
Phone Number

Health and Safety Plan (HASP)

[illegible]

PROJECT NAME:	Tuchman Cleaners Site	Date of Issue: 9/5/2012
PROJECT JOB NO.	T5-106	Period of Performance:
PROJECT LOCATION:	Marion County, Indianapolis, IN	From: 9/5/2012
CONTRACT NO.:	EP-S5-09-05	To: 11/17/2013
DELIVERY ORDER NO.:	0106	TO Ceiling: \$1,500,000.00

1.0 OVERVIEW

The following Work Plan has been prepared to discuss Environmental Restoration's (ER's) approach to the Delivery Order Statement of Work for the Tuchman Cleaners Site (Site). Each scope of work element is described in the following sections. Included in this plan is the site security plan.

The approach discussed in the Work Plan for each task is based on information and quantities found in prior site investigations and a site walk conducted on 9/6/12 that confirmed existing site conditions and operational restrictions.

The Delivery Order Statement of Work, issued on 9/5/2012, includes the following objectives:

- Develop a Work Plan consistent with the requirements detailed in Part III, Section J.1, Attachment 2 of Environmental Restoration LLC's ERRS contract.
- Develop and implement a site-specific Health and Safety Plan (HASP), Air Monitoring Plan (included in the HASP), Site Emergency Contingency Plan (included in the HASP), and Site Security Plan (included herein)
- Design and install interior vapor abatement systems in structures impacted by PCE subsurface migration
- Identify, characterize, remove and properly dispose of contaminated soil located at the Site in accordance with U.S. EPA's Off-Site Rule (40 CFR 300.440)
- Backfill excavated areas with a clean clay material and stone
- Restore excavated areas to pre-removal conditions

All project activities, as currently contemplated, including mobilization and demobilization, will be conducted under the Service Contract Act and Davis Bacon Wage Act when deemed necessary. The Site is located outside of a 50 mile radius from ER's Region 5 contract mobilization point. The CONUS lodging rate for Marion County Indiana is \$91.00/night. The CONUS M&IE rate for Marion County Indiana is \$61.00/night. ER anticipates working overtime during site activities. ER will utilize local personnel as much as possible to minimize the cost of out of town personnel.

Revisions to this plan & schedule may be necessary as work commences and site conditions warrant it. This plan is intended as a general outline of the actions required to meet the requirements of the Statement of Work.

2.0 SITE DESCRIPTION & BACKGROUND

The Site is located at 4401 North Keystone Avenue in Indianapolis, Marion County, Indiana. The Site's geographical coordinates are 39° 50' 11.97" North latitude and 86° 7' 17.28" West longitude. The Site is located in a residential and commercial area approximately 4.5 miles northeast of downtown Indianapolis. The Site is bordered to the north by a commercial business, EZPAWN; to the west by North Keystone Avenue and a pet hospital, the Keystone Pet Hospital; to the south by East 44th Street and a restaurant, Grady's Champion Deli; and to the east by Allisonville Road and a vacant grassy lot. Fall Creek, a tributary of the White River, is located approximately 600 feet south of the Site. The Site is located near two municipal wells in the Fall Creek Wellhead Protection Area.

The Site sits on a 2.2-acre lot and until November 2011 contained an approximately 37,000- square-foot facility building. In November 2011, the City of Indianapolis demolished the facility building.

According to a remedial investigation (RI) report prepared by URS Corporation, there are three distinct sand and gravel units in the Site's subsurface separated by relatively impermeable glacial till units. Devonian-aged carbonate bedrock is present at the Site at 70 to 72 feet below ground surface (bgs). During the RI, three distinct groundwater zones were identified above bedrock corresponding to the three sand and gravel units. Groundwater in these aquifers predominantly flows southwest.

Operations at the Site included dry cleaning; cleaning of draperies, leather, and suede; and wet washing of laundry, commercial uniforms, and floor mats. Tuchman Cleaners has been the Site's sole occupant for over 50 years. According to the Indiana Department of Environmental Management (IDEM), past environmental assessments indicate soil and groundwater at the Site have been impacted by historical operations and that the contamination remains. Specifically, in November 2004, URS Corporation conducted a Phase II RI at the Site and reported the presence of chlorinated volatile organic compounds (VOC), specifically tetrachloroethene (PCE) and its associated breakdown products, including trichloroethene (TCE); cis-1,2-dichloroethene; and vinyl chloride. Concentrations were in the parts per million (ppm) range.

In addition, nearby municipal wells in the Fall Creek Wellhead Protection Area have been impacted with VOCs from the Site. One of the production wells in the wellfield was shut down because of potential contamination.

In November 2011, the City of Indianapolis demolished the facility building.

3.0 OPERATIONAL APPROACH

The following sections discuss ER's approach to meet the objectives laid out in the Delivery Order Statement of Work. Significant tasks necessary to meet these objectives are identified and the resources and actions necessary to complete each task are described.

3.1 PRE-MOBILIZATION ACTIVITIES

A site specific health and safety plan (HASP) will be developed jointly by ER and Weston (START) and approved by USEPA. The HASP will also include the Air Monitoring Plan and Site Emergency Contingency Plan. The plan will be approved prior to the commencement of site activities. ER will also execute for all personnel involved in site operations, a Statement of Personal Conflict of Interest form.

A joint utility locate meeting will be held to determine the location of buried utilities within the work area. If deemed necessary approval will be requested from the City of Indianapolis to close the sidewalk adjacent to Tuchman Cleaners along Keystone Ave.

Pricing will be solicited from multiple subcontractors for major items, including: Analytical, Transportation & Disposal, sub-slab depressurization system (SSDS) installation, Geo-probing, lodging, rental equipment. A Request for Quotation (RFQ) will be developed and sent to a minimum of three bidders for each item with a purchase price exceeding \$2,499. The low cost technically acceptable bidder for each item, who is able to meet the project schedule, will be selected.

Prior to major excavation activities, ER will establish disposal approvals for PCE contaminated soils and non-hazardous soil, concrete and asphalt debris. In order to obtain disposal approval for PCE contaminated soils, ER will collect a soil samples at the OSC direction from within the excavation area. A Geo-probe unit will be utilized to collect soil samples. The samples will be taken in the grid pattern created by the OSC. Additional information about sampling can be found in the site sampling plan. Additional information regarding disposal can be found in section 3.7.

A representative sample of the backfill will be collected from the backfill source for analysis at an offsite laboratory. The sample will be analyzed for total RCRA metals, VOC's and SVOC's. Results of this analysis will be provided to EPA and START prior to delivery of the fill to the site.

3.2 MOBILIZATION

ER will primarily utilize personnel, equipment, and materials from the Noblesville, IN office. Rental equipment used at the site will be procured from local sources when feasible to minimize mobilization costs. In general, equipment and materials will be brought in on an as needed basis.

The initial ERRS crew will consist of:

- 1-RM 1- Equipment Operator
- 3-Laborer 1- Field Cost Accountant (off-site, working as needed)
- 1-T&D Coordinator (off-site, working as needed)

As the nature and intensity of site activities change, the crew size and makeup may change with the consent of the OSC.

Initial equipment will include:

2	Pickup Trucks (RM, Crew)
1	12x60 Office trailer
1	Skid steer loader with bucket, and concrete breaker attachment
1,000'	Chain-link temporary panel fence
1	40,000 to 48,000 lb. track excavator
1	6.5 kw portable generator
1	2" trash pump with hose
1	14' equipment trailer w/ misc. hand tools, drum cart, power tools, PPE, drums and 250 gallon poly tank.
1	Sheep foot soil compactor
3	Portable restrooms & hand wash station

As the nature and intensity of site activities changes, additional equipment may be mobilized with the consent of the OSC.

3.3 SITE SETUP & PREPARATION

Initial site activities will include a comprehensive review of the Site Specific Health & Safety Plan (HASP) with all crew members and a site familiarization walk through. All crew members will acknowledge the plan by signature. All work conducted at the site will be conducted in accordance with requirements of the HASP. Daily tailgate safety meetings will be held each morning to insure compliance with the requirements of the HASP and to communicate changes in the HASP to the crew.

The work area will be fenced off with temporary chain-link fencing. The fencing will encompass the majority of the site. Within the fenced area will be the waste staging area, support zone and hot zone.

The equipment, equipment trailer and office trailer will be staged within the fenced area. Limited parking for crew vehicles will be available within the fenced area. Three portable restrooms and a hand wash station will be placed inside the fenced area.

3.4 SOIL EXCAVATION & BACKFILL

Soil will be excavated using a 40,000 to 48,000 lb excavator. This size excavator will allow for direct loading into trucks for transportation. If needed roll-off boxes will also be utilized for disposal activities. Dump trucks and roll-offs will be lined with poly prior to being loaded.

The limits of the excavation extend throughout the site. An extent-of-contamination survey will determine the true extent of the excavation area. The vertical extent of excavation is expected to be 2' to 4' below grade. Any excavation within 1.5' of the buried utility markings must be conducted by hand only.

The lateral and vertical extent of excavation will be guided by field screening of grab samples with a MultiRae Plus or equivalent meter but will not exceed the limitations described above. Field screening of soil samples will be conducted by START. Once excavation has been completed, confirmation soil samples will be collected by START as directed by the OSC.

The potential exists for encountering perched groundwater during excavation activities. A 2" trash pump will be onsite to remove water from the excavation as necessary. A 250 gallon poly tank will be available to containerize water. If USTs are encountered during excavation activities they will be removed and cleaned.

Imported clay backfill will be placed into the excavation and spread in level 12" lifts using the track excavator, dozer and roller. From a depth of four feet until grade, compaction will be conducted with a sheep foot compactor. Moisture may be added to the backfill to improve compaction. The final 6" of fill will consist of road mix gravel.

3.5 SUB-SLAB DEPRESSURIZATION SYSTEM INSTALLATION

A sub-slab depressurization system will be installed in the homes or businesses deemed necessary. This work will be completed by a subcontractor selected after a competitive bidding process. A Request for Quotation (RFQ) will be developed and sent to three or four bidders. The RFQ will request three references for similar projects that have been completed in the last two years. Vapor Intrusion sampling will be performed to determine what properties will require mitigation systems.

3.6 DISPOSAL

The facilities selected for disposal of waste shipped from the site will be checked with the appropriate Region's off-site disposal coordinator to ensure compliance with the CERCLA offsite disposal rule.

A waste profile sheet for each waste stream will be completed, forwarded to the OSC for review and signature, and then submitted to the disposal facility for approval.

Disposal documentation accompanying each load of waste will be reviewed prior to presentation to the OSC for signature. The interior of waste transportation vessels will be inspected for cleanliness prior to loading. A CERCLA offsite disposal report will be completed within 10 days of the completion of disposal.

A waste tracking log will be maintained onsite and will be used to track each load of waste leaving the site. The log will also record information such as the transporter, receiving facility, profile/approval number, waste description, date shipped and estimated quantity.

4.0 SITE SECURITY (SITE SECURITY PLAN)

During working hours, all visitors to the site will be directed to sign in on the site entry/exit log. An entry/exit log will be maintained to track all personnel onsite. Temporary fencing will be installed to limit access to the work area. Signs will be posted on the fence areas notifying the public to keep out.

Visitors/observers will be kept out of the work areas while site activities are underway and should be escorted at all times. Trespasser(s) should be asked to leave work areas and the local police should be notified if the trespassers fail to comply. In the event trespasser(s) enter work areas, work should immediately cease, workers should exit the area, and the OSC should be notified. Work should not restart until the trespasser(s) have left the site.

Off hours manned security is planned for this site. All hand tools, materials and miscellaneous supplies will be locked up in the equipment trailer during off hours. Roll-off boxes containing contaminated soil will be securely tarped during off hours.

5.0 ENVIRONMENTALLY FRIENDLY PRACTICES

ER will attempt to employ environmentally friendly practices consistent with Part III Section J Attachment 7 of the contract during the execution of this task order. Where cost is increased by adherence to these practices, the OSC will be consulted prior to incurring the additional cost. These practices include, but are not limited to the following:

- Utilizing environmentally conscious hotels
- Utilizing alternative fuels
- Utilizing green office supplies
- Recycling plastic, paper and metals generated onsite
- Exploring the beneficial reuse of wastes generated onsite
- Procurement of goods and services from local vendors to minimize mobilization costs
- Institution of a no-idle policy for heavy equipment and vehicles

6.0 PROJECT REPORTING & CLOSEOUT

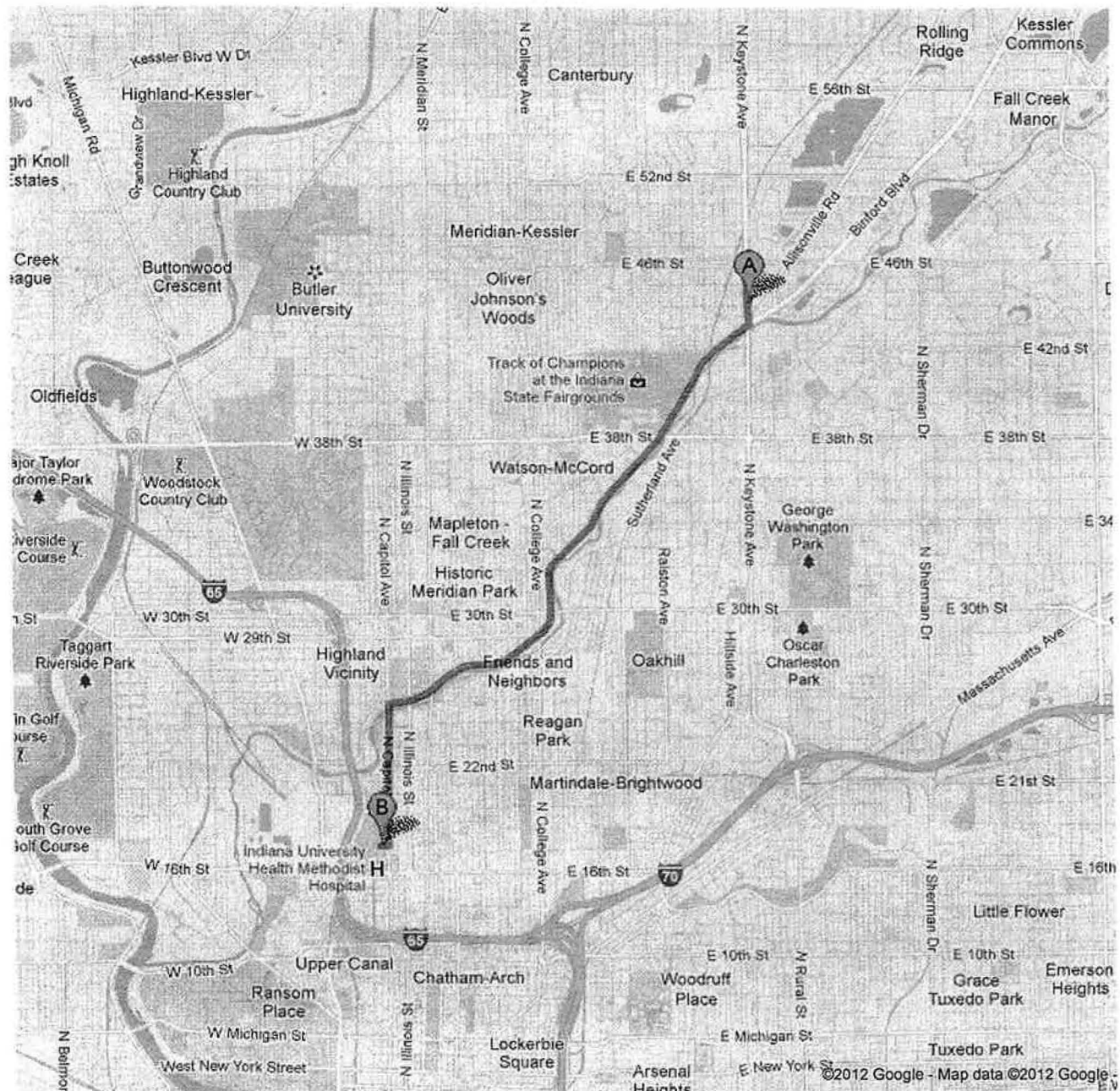
ER will meet the project specific reporting requirements detailed in Section F, Paragraph F.2 of the contract titled Reports of Work.

7.0 SCHEDULE

The tentative mobilization date to begin site activities is 9/17/2012. Major excavation and site activities are set to begin on October 1st.



**Directions to Indiana University Health
Methodist Hospital, I-65 At 21st St,
Indianapolis, IN 46201**
4.8 mi – about 12 mins





4401 N Keystone Ave, Indianapolis, IN 46205

1. Head **north** on **N Keystone Ave** toward **Duke St**

go 0.2 mi
total 0.2 mi



2. Make a U-turn at **E 46th St**
About 1 min

go 0.4 mi
total 0.6 mi



3. Turn right onto **E Fall Creek Pkwy N Dr**
About 8 mins

go 3.3 mi
total 3.9 mi



4. Turn left onto **N Capitol Ave**
About 2 mins

go 0.8 mi
total 4.7 mi



5. Turn right onto **W 18th St**

go 233 ft
total 4.8 mi



Indiana University Health Methodist Hospital, I-65 At 21st St, Indianapolis, IN 46201

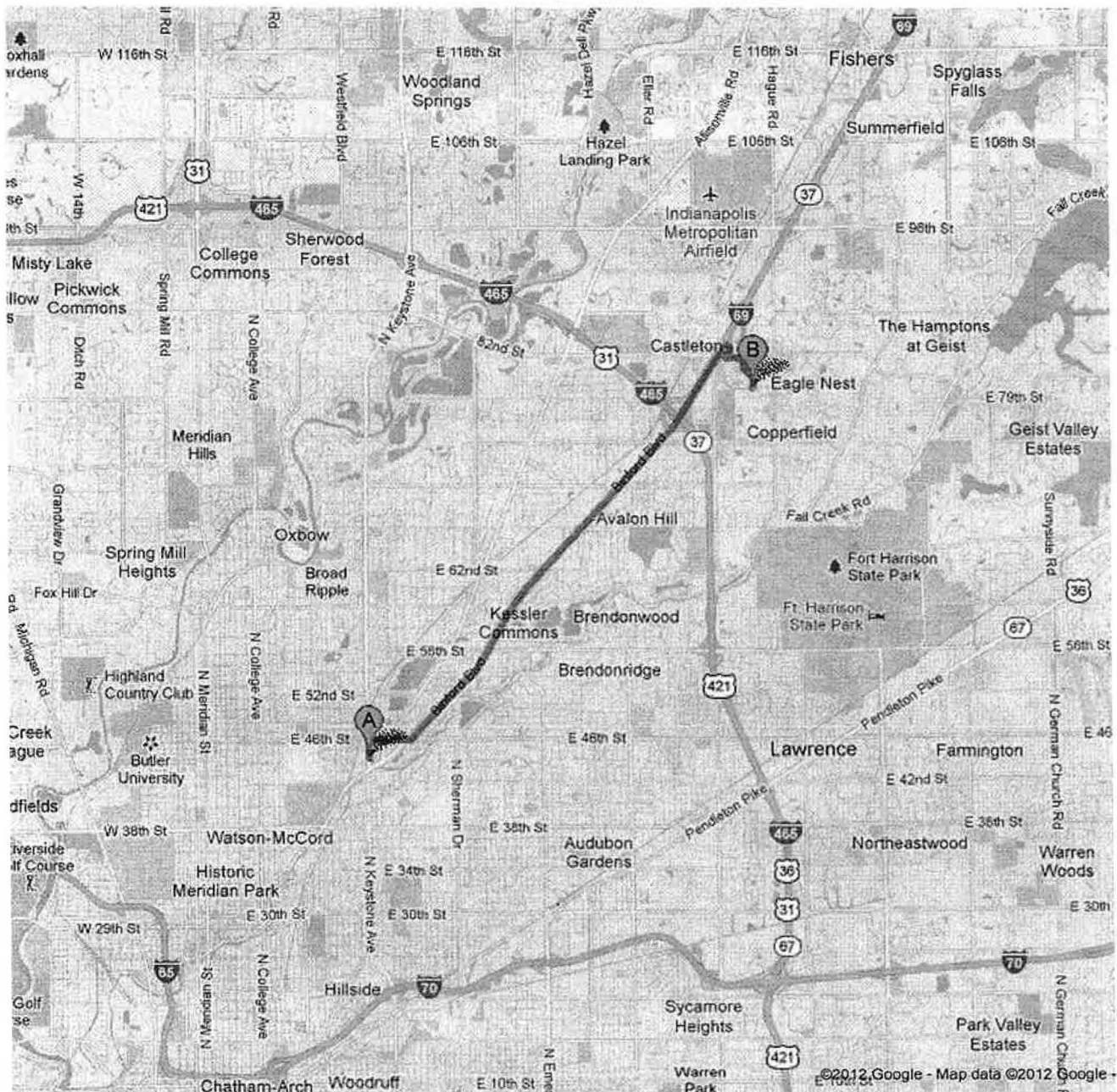
These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.

Map data ©2012 Google

Directions weren't right? Please find your route on maps.google.com and click "Report a problem" at the bottom left.



**Directions to Occupational Health, 7150
Clearvista Drive, Indianapolis, IN 46256**
7.4 mi – about 12 mins





4401 N Keystone Ave, Indianapolis, IN 46205

1. Head **north** on **N Keystone Ave** toward **Duke St** go 0.2 mi
total 0.2 mi
2. Take the 1st right onto **E 46th St** go 0.5 mi
total 0.7 mi
About 2 mins
3. Turn left onto **Binford Blvd** go 4.9 mi
total 5.6 mi
About 6 mins
4. Continue onto **I-69 N** go 0.9 mi
total 6.5 mi
About 50 secs
5. Take exit **1** for **82nd Street E** toward **Castleton** go 0.3 mi
total 6.8 mi
6. Turn left onto **82nd St** go 0.2 mi
total 7.0 mi
About 55 secs
7. Take the 1st right onto **Clearvista Pkwy** go 0.4 mi
total 7.4 mi
Destination will be on the right
About 2 mins



Occupational Health, 7150 Clearvista Drive, Indianapolis, IN 46256

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Map data ©2012 Google

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SITE-SPECIFIC TRAINING RECORD

This is to advise that Richie Byrd conducted a Site-Specific Training
(Instructor's name)

course for Environmental Restoration, LLC at the
(Company Name)

0106 / Tuchman Cleaners project on _____
(TO #, Project Name) (Date)

The total duration of the instructions was _____ hours.

Instruction covered the topics checked off below:

- Site Location, Description and History ☒
- Potential site hazards (chemical, physical, and biological) ☒
- Chemical, physical, and toxicological properties of site contaminants ☒
- Safe work practices ☒
- Training requirements ☒
- Medical Surveillance ☒
- Control Zones ☒
- Monitoring ☒
- Selection, use, and limitation, of personal protective equipment ☒
- Personnel and equipment decontamination ☒
- Emergency response procedures ☒
- Hazard communication ☒
- Blood borne pathogen briefing ☒

The following participant attended the training course for the full duration indicated above.

James C Hawkins
Name (Print)

James C Hawkins
Signature

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JEFF KNIGHT
Name (Print)

[Signature]
Signature



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John Schoen Jr.
Name (Print)


Signature



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- Emergency response procedures ☒
- Hazard communication ☒
- Blood borne pathogen briefing ☒

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Matthew R. Coleman
Name (Print)

Matthew R. Coleman
Signature



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